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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,287	07/23/2003	Jung Kook Park	CU-3301 RJS 7895	
26530 7590 02/09/2007 LADAS & PARRY LLP 224 SOUTH MICHIGAN AVENUE SUITE 1600 CHICAGO, IL 60604			EXAMINER	
			XIAO, KE	
			ART UNIT	PAPER NUMBER
omerico, in	00001		2629	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		02/09/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)		
Office Action Summary		10/625,287	PARK ET AL.		
		Examiner	Art Unit		
		Ke Xiao	2629		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHO WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE is not soft time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).		
Status					
 Responsive to communication(s) filed on <u>27 November 2006</u>. This action is FINAL. 2b) ☐ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 					
Dispositi	on of Claims				
5)⊠ 6)⊠ 7)□	Claim(s) <u>1-10</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) <u>1 and 3-10</u> is/are allowed. Claim(s) <u>2</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.			
Application Papers					
10)⊠	The specification is objected to by the Examiner The drawing(s) filed on <u>28 March 2006</u> is/are: a Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Ex	a) accepted or b) objected to drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority u	inder 35 U.S.C. § 119	•	•		
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
A44			• (
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te		

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DETAILED ACTION

Drawings

The drawings were received on March 28th, 2006. These drawings are not completely accepted:

Regarding the changes made to Figure 3, the new figure does not match with the detailed specification for the following reasons.

STV2 needs to be extended further down to connect with the third bus line from the left in order to supply element 240;

Element 220 should contain switches SW1 thought SW29 corresponding to shift registers SR2 through SR30; and

Element 240 should contain switches SW30 thought SW58 corresponding to shift registers SR32 through SR60.

SR32 should look exactly like SR1 in that it has two inputs STV2 and CPV.

The output of SR30 cannot be connected to the input OES cause it would create a signal conflict.

Amendments to all other figures are accepted.

Specification

The amendment filed November 27th, 2006 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no

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amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows:

The newly amendments to paragraphs [0034] and [0035] are not supported by the original disclosure. Specifically all second shift register should be referred to as second shift register SR31-SR60. Second SR31 is not part of the first shift register group which consists of shift registers SR1-SR30. Third, SW30 does not switch to an output terminal of the shift register SR32 instead it provides the input for SR32 not shift register SR31 as stated in the specification.

Applicant is required to cancel the new matter in the reply to this Office Action.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 2 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Regarding **Claim 2**, the claim recites the limitation "wherein the active address interval is substantially equivalent to being driven at 85 Hz when a refresh rate is 60 Hz". However there is no support for such a limitation in the detailed specification and no explanation of how the device would operate under such a limitation. The well

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known definition of frequency in the art is how many times a full period of a signal is repeated during a fixed time period, usually one second. And according to the detailed specification the refresh rate is 60 Hz which is controlled by the V_sync which has a full period of 16.7ms (Fig. 6), and the active address interval is driven at 60 Hz as well which is controlled by the CPV which has a full period of 16.7ms (11.2ms + 5.5 ms) the same as the V_sync (Fig. 6). Further according to the detailed specification the refresh rate as well as the active address interval *must* be synced with one another in order for the display to be operable.

Allowable Subject Matter

Claims 1 and 3-10 are allowed.

Regarding independent **Claim 1**, prior art (Nose, Fig. 13) teaches all limitations of the claim except a current boosting section for increasing current amount supplied to the gate bus lines during the vertical blanking period interval in response to a pulse width modulation signal. It is noted that prior art does show a current boosting section responsive to a pulse width modulation signal. However said current boosting section is not used to supply gate bus lines and is not operational during a vertical blanking period as claimed.

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Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ke Xiao whose telephone number is (571) 272-7776. The examiner can normally be reached on Monday through Friday from 8:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

January 30th, 2007 - kx -

SUMATI LERKOVITZ
SUDESVISORA SATENT EXAMINER

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